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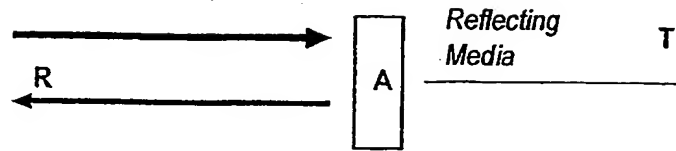


Figure 1 EM Reflective Switch ( $R \gg T + A$ )

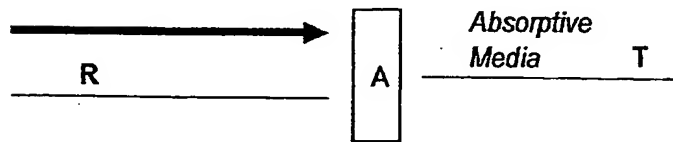


Figure 2 EM Absorptive Switch ( $A \gg R + T$ )

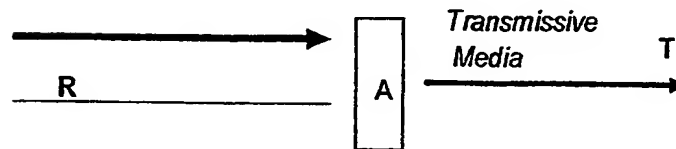
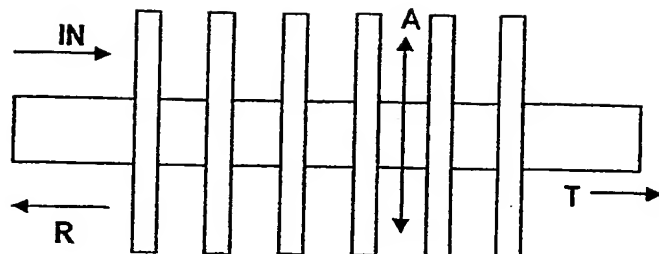
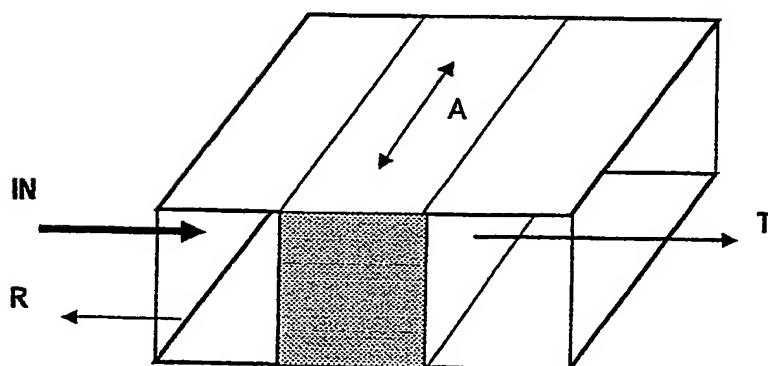
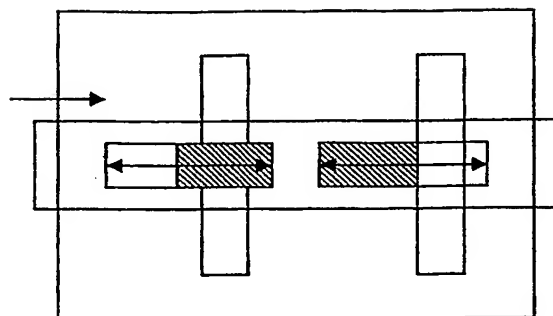


Figure 3 EM Transmissive Switch ( $T \gg R + A$ )

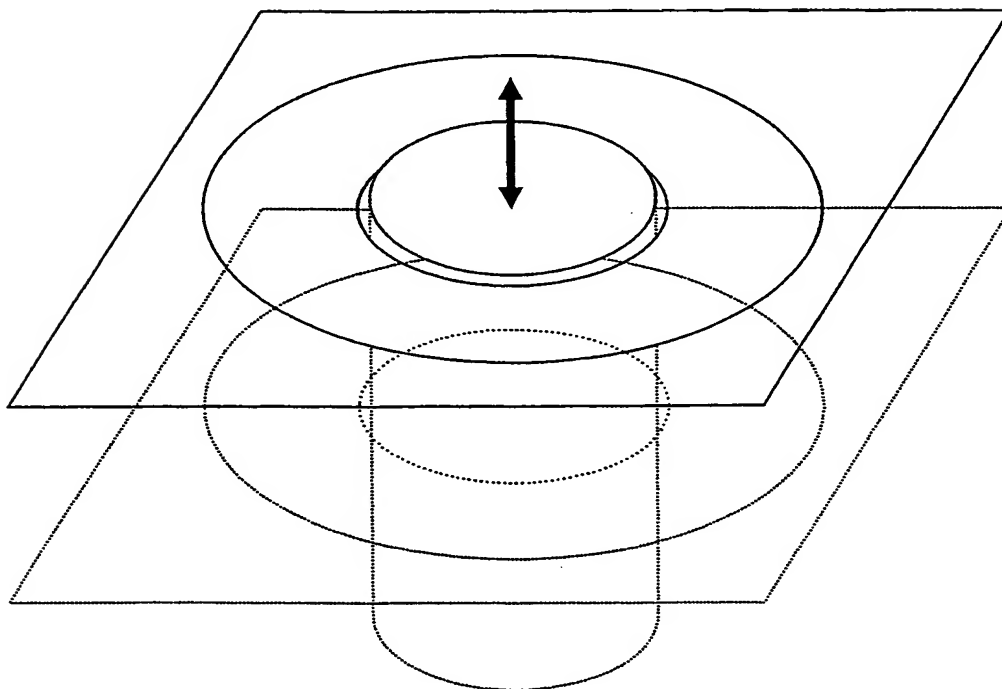
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**Figure 4 EBG Transmission Line****Figure 5 Parallel Plate Wave Guide**

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**Figure 6 Surface Electrostatic EBG Switch**



**Figure 7 Through Thickness Electromagnetic Switch**

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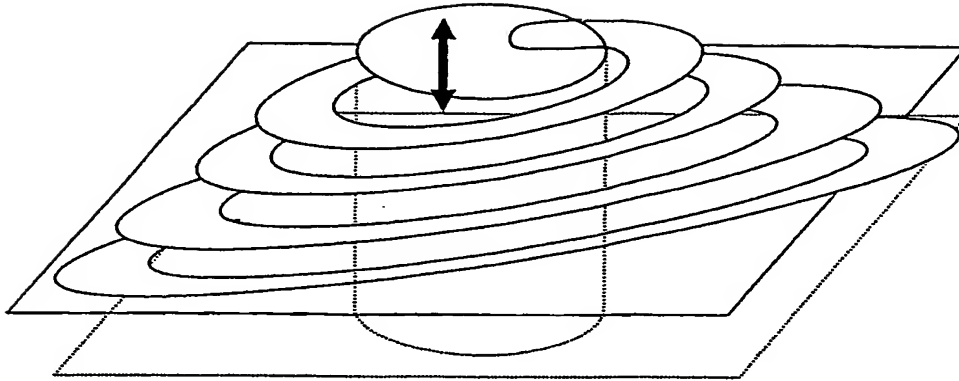


Figure 8 Mu Metal Switch

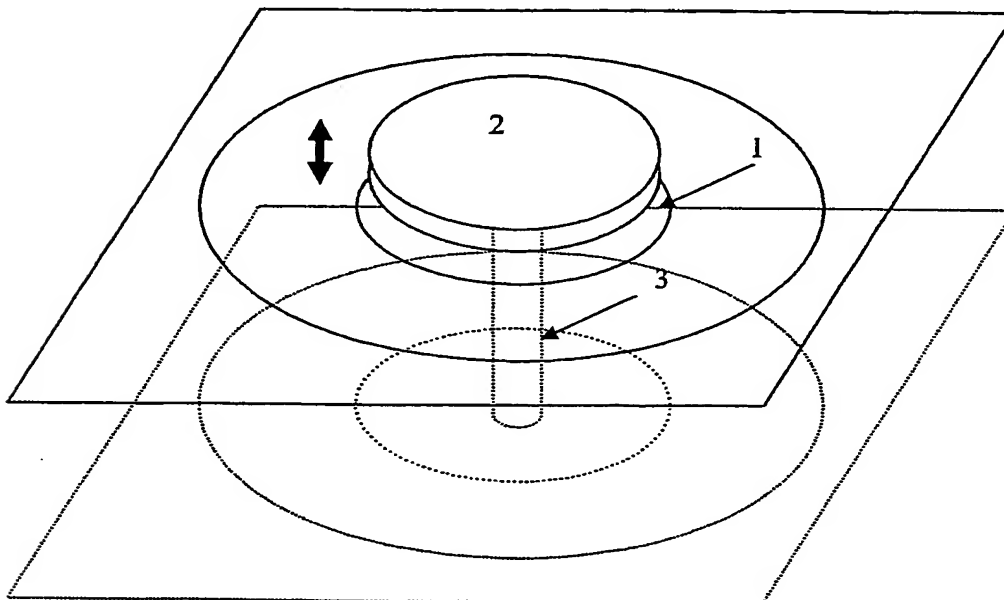


Figure 9 A Through Thickness Fluidic Switch

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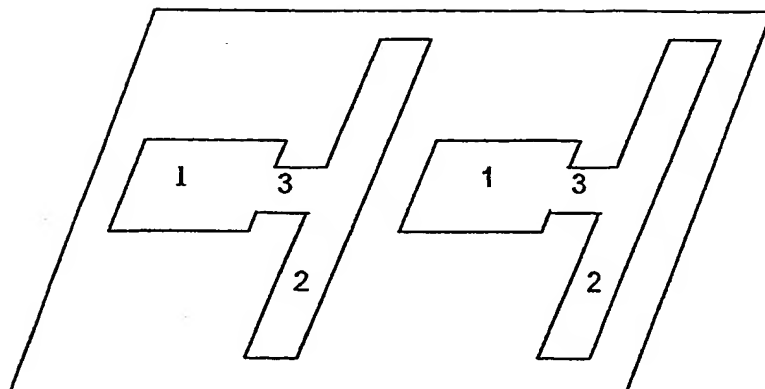


Figure 10 A Surface Fluidic Switch

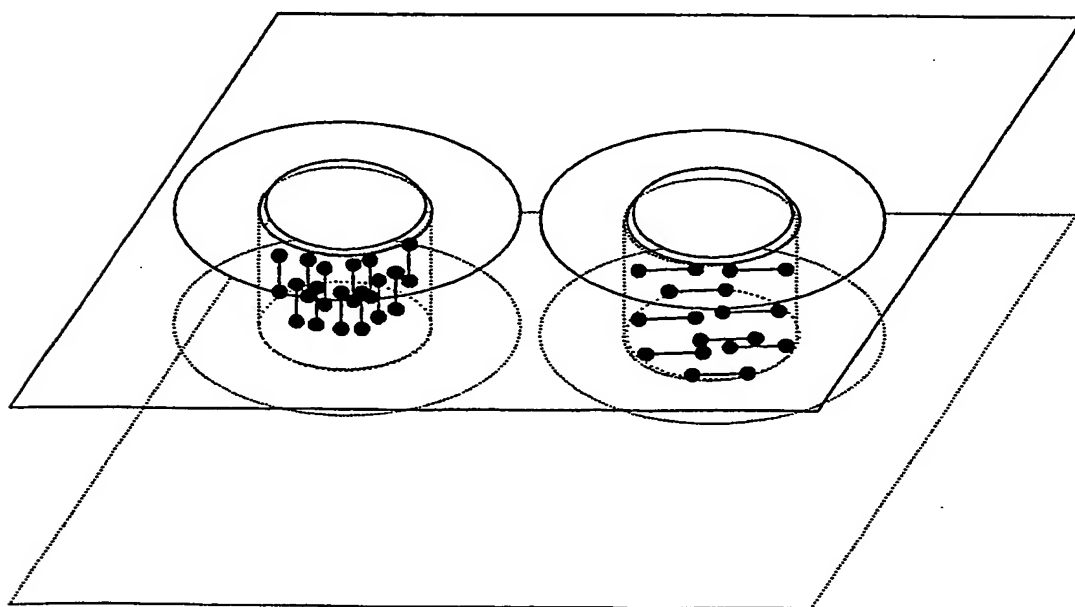


Figure 11 Through-thickness Molecular Switch

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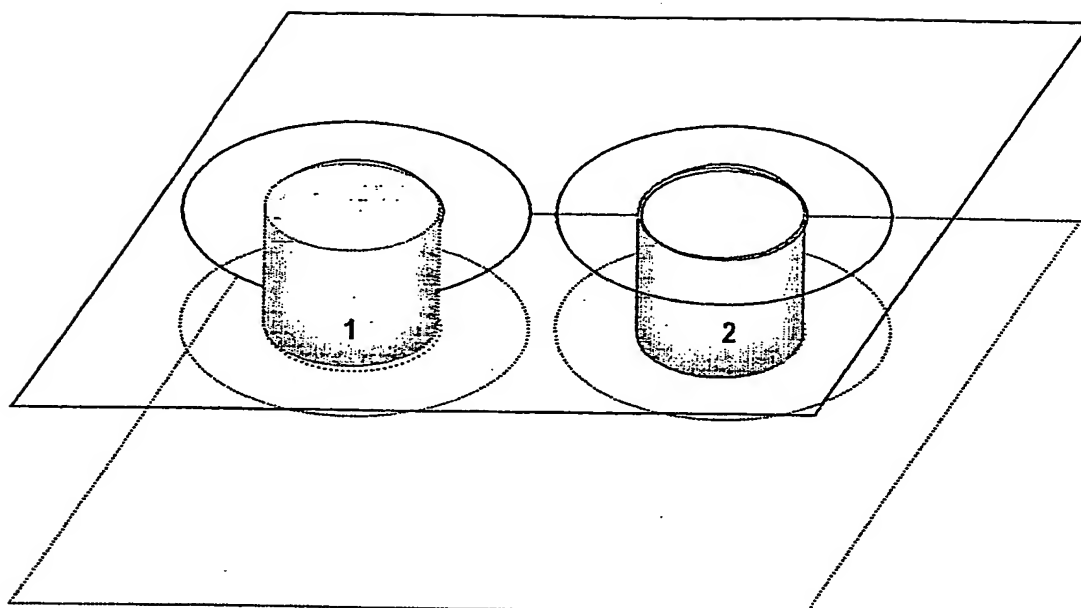


Figure 12 Through-thickness Powder Switch

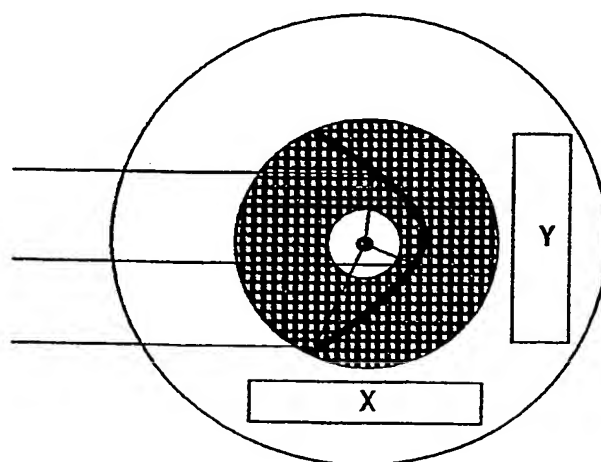
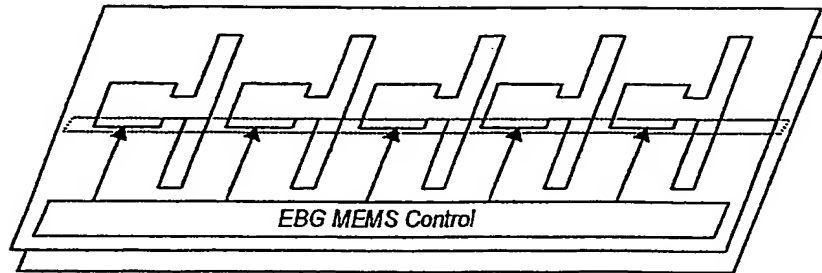


Figure 13 Lens/Reflector through-thickness MEMS Array

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**Figure 14 MEMS EBG Array**